APPENDIX A

Permit Application Forms

STATE OF NEW HAMPSHIRE Department of Environmental Services Air Resources Division

P.O. Box 95

Concord, NH 03302-0095 Telephone: 603-271-1370





General Information for All Permit Applications

A. Type of Appl	ication:	Ne	w			Ren	iewal			Mo	dificatio	n
B. Physical Loca	ition:					C. Maili	ng Add	iress:				
Concord Expa	nsion Co	mpressor	Statio	on		1001 L			Street			
Facility Name					_	Street/P.O. B	ox	ana .	creer			
Mammoth Road						Houston			TX	, 7.	7002	
Street				_	_	Town/City			Sta		Code	
Pelham		NH	03076			(713)	120-7	931	3.7		, couc	
Town/City		State	Zip Code			Telephone Ni		731				
D. USGS		UTM		or			Ls	titude	/Longita	nde		-
Coordinates:	Easting:	307131		1	NI	atitude:	Deg		Min		Sec	1.735
	Northing:	4739290)	1			-		The second			
	Tiorumg.			J	- 44	ongitude:	Deg	/ 1	Min	21	Sec	28.367
Tennessee Ga Company 1001 Louisian	-		ny		_	El Paso Company N/A	Corp	porat	ion			. Proposition .
Street P.O. Box						Contact Perso	n/Title					
Houston		TX	77002			1001 Lo	ouisia	ana S	treet			
Town City:	155	State	Zip Code			Street/P.O. Bo					-17	
(713) 420-79:	31					Houston	1		TX	77	7002	
Telephone Number		112				Town/City:			Stat		Code	
						(713) 4	120-79	931				
						Telephone Nu	ımber					
G. Contact Infor	mation											
 General/Techn 	ical Contac	et:				2. Applic	ation P	repar	ation:			
Trinh Tran						Tetra T	ech F	ec t	nc			
Contact Person					0	Company		20, 1				
Principal Eng	g.Eastern	n Pipeli	nes Env	7.		Tricia	Beazl	ev				
Title				_		Contact Perso					75	
1001 Louisian	na Street					133 Fed	eral	Stre	et 6 ^t	h Flo	or	
Address					_	Address	· · · · · · ·	5010	cc, o	1 10	701	
Houston		TX	77002			Boston			MA	02	2110	
own/City		State	Zip Code			Town/City			Stat		Code	
(713) 420-793	31					(617)45	7-824	13				
elephone Number						Telephone Nu						
Frinh.M.Tran@	ElPaso.c	com				tricia.		ever	teci o	mor		
-mail Address						E-mail Addres		-1				

3. Legal Contact:			4. Invoicing Contact:		
Scott Miller			Trinh Tran		
Contact Person			Contact Person		
Senior Counsel			Principal Eng.Eas	stern D	inelines Env
Title			Title Title	JCCIII I	ipelines Env.
1001 Louisiana Street			1001 Louisiana St	reet	
Address			Address	21000	
Houston	TX	77002	Houston	TX	77002
Town/City	State	Zip Code	Town/City	State	Zip Code
(713) 420-2336			(713) 420-7931		Dip code
Telephone Number			Telephone Number		
			Trinh.M.Tran@ElPa	so.com	
E-mail Address			E-mail Address		

H. Major Activity or Product Descriptions - List all activities performed at this facility and provide SIC code(s):

Description of Activity or Product	SIC Code	
Natural Gas Compressor Station	4922	

I. Other Sources or Devices - List sources or devices at the facility (other than those that are the subject of this application) that are permitted pursuant to Env-A 600:

Source or Device	Permit #	Expiration Date
N/A		

Π. Total Facility Emissions Data:

Pollutant	CAS#	Actual (lb/hr)	Potential (lb/hr)	Actual (ton/yr)	Potential (ton/yr)
NOx (as NO2)	10102-44-0	Unknown	5.66	Unknown	24.81
CO	630-08-0	Unknown	7.63	Unknown	33.41
VOC	N/A	Unknown	2.02	Unknown	8.85
S02	7446-09-5	Unknown	0.20	Unknown	0.87
PM	N/A	Unknown	0.39	Unknown	1.72

Note: For Regulated Toxic Air Pollutants list name and Chemical Abstract Service Number (CAS #) – use additional sheets if necessary.

Ш.	Support Data	The following	data must	be submitted	with this	application
	2025	3011011116	water must	ve suominea	with this	applicati

A copy of all calculations used in determining emissions:

A copy of a USGS map section with the site location clearly indicated; and

A to-scale site plan of the facility showing:

- 1. the locations of all emission points;
- 2. the dimensions of all buildings, including roof heights; and
- 3. the facility's property boundary.

Certification (To be completed by a responsible official only): IV.

I am authorized to make this submission on behalf of the affected source or affected units for which this submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the information submitted in this document and all of its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

1	Print/Type Name:	William (Bill) G. Cope	Title: VP Operations
a de	Signed:	William Li Cope	Date: 1/z 5/08

STATE OF NEW HAMPSHIRE Department of Environmental Services Air Resources Division

Form ARD-2



Information Required for Permits for Fuel Burning Devices

EQUIPMENT INFO	RMATION -	Complete a separa	ate form for each device.
Device Description:	Emergency	Generator	
Date Construction Commenced:	2008		Device Start-Up Date: October 2009
A. Boiler Not	Applicable		
Boiler Manufacturer			Boiler Model Number
Boiler Serial Number			Gross Heat Input Nameplate Rating (MMBtu/hr)
Burner Manufacturer			Burner Model Number
Burner Serial Number			Potential Fuel Flow Rate
1. Type of Burne	er:		1 oceania i del i low Rate
a. Solid Fuel:		b. Liquid Fuel:	c. Gaseous Fuel:
Cyclone		Pressure Gun	☐ Natural Gas
☐ Pulverized (☐ w	et 🔲 dry)	Rotary Cup	Propane
Spreader Stoker		Steam Atomiz	
Underfeed Stoker	8	☐ Air Atomizati	o alei (speeliy).
Overfeed Stoker		Other (specify	
☐ Hand-Fired		Outer (speemy	y):
☐ Fly Ash Re-inject	ion		
Other (specify):			
2. Combustion Ty			-
☐ Tangential Firing	1200F		
		posite End Firing	☐ Limited Excess Firing ☐ Flue Gas Recirculation
Staged Combustion	on \bigsqcup Bi	ased Firing	One End Only Firing
Other (specify):			
B. Internal Combustion	on Engines/Co	mbustion Turbin	es Not Applicable
TBD			TBD
Manufacturer		75	Model Number
TBD Serial Number			TBD gal/hr mmcf/hr
425		hp	Fuel Flow Rate
Engine Output Rating		□ kW	Auxiliary power source

Device	ze:						
Page	2 of 4						Form ARD-2
C.	Stack Informat	tion					ARD-2
	Is unit equipped	with multiple	stacks?	Yes No (ii	ves provide da	ta for each stack)	
	Identify other de				yes, provide da	ia jor each stack)	
				licable? Yes [X No		
	Is stack monitori						
	If yes, Descr		20 10 0000 0000				
	Is stack capped of		estricted?	Yes No			
	If yes, Descr			_ 100 M 110			
	Stack exit orienta	-	rtical	Horizontal	Downward		
	TBD Stack Inside Dian	neter (ft) Exit	Area (ft²)		TBD Discharge height ab	ove ground level (ft)	
	TBD				TBD	ove ground level (II)	
	Exhaust Flow (acfm)				Exhaust Velocity (ft	/sec)	
	TBD Exhaust Temperature						
	OPERATIONAL A. Fuel Usage I 1. Fuel Sup	nformation	TION		2. Fuel Additi	ives:	
	Tennessee	e Gas Pipe	eline C	ompany	N/A		
	Supplier's Name				Manufacturer's Nam	е	
	Street	isiana St	reet		Street		
	Houston		TX	77002	Succi		
	Town city		State	Zip Code	Town/City		State Zip Code
	(713) 420 Telephone Number						
	relephone Numb	er			Telephone Number		
				i.e	Identification of Add	itive	
				82			
		V 20 92.00				rallons per 1000 gallons of	fuel)
	3. Fuel Infor	mation (List	each fuel i	utilized by this de	vice):		
	Туре	% Sulfur	% Ash	% Moisture (solid fuels only)	Heat Rating (specify units)	Potential Heat Input (MMBtu/hr)	Actual Annual Usage (specify units)
	nat gas	<0.001	N/A	N/A	Unknown	4.68*	Unknown

B. Hours of Operation

Days per year: 20.8(based on 500 hours of operation per year) Hours per day: 24

4.68*

Unknown

Device: Page 3 of 4					Form ARD-2
III. POLLUTION	CONTROL EQUIP	MENT Not	Applicable		
	quipment Note: if pro			vice, provide data f	or each device
1 <u>024116</u> ;	ed settling chamber		wide bodied o		
long	cone cyclone		irrigated long	3	
multi	iple cyclone (i	nch diameter)	arbon absorp	172/4	
	rostatic precipitator			rostatic precipitator	-
spray	tower		absorption tov	1901 30	N
☐ ventu	ıri scrubber		☐ baghouse		
afterl	ourners (incineration)		packed tower/	column	
select	tive catalytic reduction	ı	5000000000	catalytic reduction	
rebur	n			y are reduction	
other	(specify):				
B. Pollutant	Input Information		3		
Pollutant	Temperature	Actual	Potential	Actual	Potential
	(°F)	(lb/hr)	(lb/hr)	(ton/yr)	(ton/yr)
Method used t	o determine entering	emissions:			
stack test	vendor data	emission facto	or material bal	ance	
	ecify):	<u> </u>			
C. Operating	Data				
	Efficiency: %	Verified by	test calcula	tions	
	Efficiency: %		test calcula		
	Operating Conditions				
5. Holliai	operating conditions	(supply the Jollow	ing adia as applicad	ne)	
Total gas volu	me through unit (acfm)	Temperature (°F)		Percent Carbon Dio	oxide (CO ₂)
Voltage		Spark Rate		Milliamps	
Pressure Drop	(inc.ies of water)	Liquid Recycle Ra	ate (gallons per minute)		

Device:	
Page 4 of 4	

IV. DEVICE EMISSIONS DATA:

Pollutant	Temperature (°F)	Actual (lb/hr)	Potential (lb/hr)	Actual (ton/yr)	Potential (ton/yr)
NOx (as NO2)	> 0	Unknown	0.11	Unknown	0.47
CO	> 0	Unknown	0.21	Unknown	0.94
VOC	> 0	Unknown	0.05	Unknown	0.23
S02	> 0	Unknown	0.0002	Unknown	0.0007
PM	> 0	Unknown	0.003	Unknown	0.0117

ching chinstons.									
stack test		vendor o	lata	\boxtimes	emi	ssion facto	r 🗆	material	balance
other (spec			EME	RGEN	1CY	ENGINE			
				- 3 1					

STATE OF NEW HAMPSHIRE Department of Environmental Services Air Resources Division





Information Required for Permits for Fuel Burning Devices

EQUIPMENT INFORMATION – Complete a separa	ate form for each device.		
Device Description: Compressor Turbine #1	(with SoLoNOx Combustion System)		
Date Construction	of order		
Commenced: 2008	Device Start-Up Date: October 2009		
A. Boiler Not Applicable			
Boiler Manufacturer	Boiler Model Number		
Boiler Serial Number	Gross Heat Input Nameplate Rating (MMBtu/hr)		
Burner Manufacturer	Burner Model Number		
Burner Serial Number	Potential Fuel Flow Rate		
1. Type of Burner:	1 Old Marie Carlow Rate		
a. Solid Fuel: b. Liquid Fuel	l: c. Gaseous Fuel:		
☐ Cyclone ☐ Pressure Gur	n Natural Gas		
☐ Pulverized (☐ wet ☐ dry) ☐ Rotary Cup	Propane		
☐ Spreader Stoker ☐ Steam Atomi	3000000 1 00000000000000000000000000000		
☐ Underfeed Stoker ☐ Air Atomizat	en e		
Overfeed Stoker Other (specif	fy):		
☐ Hand-Fired			
Fly Ash Re-injection			
Other (specify):			
2. Combustion Type:	ω		
☐ Tangential Firing ☐ Opposite End Firing	☐ Limited Excess Firing ☐ Flue Gas Recirculation		
☐ Staged Combustion ☐ Biased Firing	One End Only Firing		
Other (specify):			
B. Internal Combustion Engines/Combustion Turbi	nes Not Applicable		
Solar	Centaur 50-6200LS		
Manufacturer	Model Number		
Unknown Serial Number	0.056 @ 40 deg. F ⊠ mmcf/hr		
6 346 0 40 3-11 D	Fuel Flow Rate		
Engine Output Rating	For use in NG Compressor Station Reason for Engine Use		

Device:							
Page 2 of 4			Form ARD-2				
C. Stack Information							
Is unit equipped with multiple stacks? Yes X	Is unit equipped with multiple stacks? Yes No (if yes, provide data for each stack)						
Identify other devices on this stack: N/A		, or each stack)					
Is Section 123 of the Clean Air Act applicable?	Is Section 123 of the Clean Air Act applicable? Yes No						
Is stack monitoring used? Yes No							
If yes, Describe:	2004 Street Mark 1970 S						
Is stack capped or otherwise restricted? Yes X	No						
If yes, Describe:	00 0 0						
Stack exit orientation: Vertical Horizontal	☐ Downward						
6.0	55.0						
Stack ☐ Inside Diameter (ft) ☐ Exit Area (ft²)	Discharge height above	ground level (ft)					
88,588	52.22						
Exhaust Flow (acfm)	Exhaust Velocity (ft/sec	:)					
924 Exhaust Temperature (°F)							
Establish temperature (1)							
II. OPERATIONAL INFORMATION							
A. Fuel Usage Information							
1. Fuel Supplier:	2. Fuel Additive	2. Fuel Additives:					
Tennessee Gas Pipeline Company	N/A						
Supplier's Name	Manufacturer's Name						
1001 Louisiana Street							
**************************************	Street						
Ho 1ston TX 77002 Town/City State Zip Code	Town/City						
(713) 420-2600	rown/City		State Zip Code				
Telephone Number	Telephone Number		_				
	Identification of Additive						
2 Paul Face de Cres de la Carte de Cart		ns per 1000 gallons of fue	el)				
3. Fuel Information (List each fuel utilized by th	is device):						
% Moisture	Heat Rating	Potential Heat	Actual Annual				

Туре	% Sulfur	% Ash	% Moisture (solid fuels only)	Heat Rating (specify units)	Potential Heat Input (MMBtu/hr)	Actual Annual Usage (specify units)
nat gas <0.00		N/A	N/A	8141Btu/hp.hr	52.2*	Unknown

B. Hours of Operation

Hours per day: 24 Days per year: 365

Device: Page 3 of 4					Form				
ATT 0		_			ARD-2				
III. POLLUTION CONTROL EQUIPMENT Not Applicable									
A. Type of Equipment Note: if process utilizes more than one control device, provide data for each device									
-	settling chamber		wide bodied cyclone						
51	ne cyclone		irrigated long cone cyclone						
	e cyclone (ir	ich diameter)	carbon absorp						
	tatic precipitator			trostatic precipitato	Ē.				
☐ spray to	scrubber		absorption tower						
<u> </u>	ners (incineration)		☐ baghouse						
_	e catalytic reduction			packed tower/column selective non-catalytic reduction					
reburn			selective non-	catalytic reduction					
other (sp	pecify):								
B. Pollutant Inp	e: #3201 S-320								
Pollutant	Temperature	Actual	Potential	Actual	D				
Ponutant	(°F)	(lb/hr)	(lb/hr)	(ton/yr)	Potential (ton/yr)				
	+								
	1								
Method used to d	letermine entering en	nissions:							
stack test	vendor data	emission factor	or material bal	lance					
other (special	fy):								
C. Operating Da	ıta								
1. Capture Ef	ficiency:%	Verified by:	test calcula	tions					
	ficiency:%		test calcula						
3. Normal Op	erating Conditions (ing data as applicab						
Total gas volume t	hrough unit (acfm)	Temperature (°F)	///	Percent Carbon Dio	xide (CO ₂)				
Voltage		Spark Rate		Milliamps					
Pressure Drop (inc	hes of water)	Liquid Recycle Ra	ate (gallons per minute)						

Device:	
Page 4 of 4	

IV. DEVICE EMISSIONS DATA:

Pollutant	Temperature (°F)	Actual (lb/hr)	Potential (lb/hr)	Actual (ton/yr)	Potential (ton/yr)
NOx (as NO2)	0	Unknown	5.46	Unknown	23.9
CO	0	Unknown	7.33	Unknown	32.1
VOC (as UHC)	0	Unknown	1.96	Unknown	8.6
SO2	0	Unknown	0.21	Unknown	0.9
PM	0	Unknown	0.40	Unknown	1.7

Method used to	o determine exiting	emissions:	
stack test	vendor data	emission factor	material balance
other (spec	ify):		